Coway

COWAY Water Filtration System

CHP-04AR/L/U METRO

Do not fail to read this user's manual before you use this water filtration system and keep it within ready reach.

TÜV CERT
ISO14001

- This product can not be used if the voltage is different from that mentioned in the rating plate.
- The Letter of Guarantee is enclosed here with this product realizing "A/S is the best policy".

DEAR CUSTOMERS

First of all, we would like to thank you very much for purchasing this water filtration system. This product is superior to the ones in function in the past, and we believe that it will provide you with clean and healthy water. We would like to recommend you to read carefully this user's manual for proper operation and maintenance and keep it well together with the warranty. This user's manual could solve your problem so that you can easily fix by yourself in just a few minutes.

Read this Manual

Inside this manual you will find many helpful hints on maintaining your filtration system properly. Just a little preventive care on your part can save you a great deal of time and money over the life of your system.

Review the Section on Troubleshooting Tips

You'll find many answers to common problems here. If you review this chart of Troubleshooting Tips first, you may not need to call for service at all.

If You Need Service

If you do need service, make a phone call to customer center.

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IMPORTANT SAFETY INFORMATION

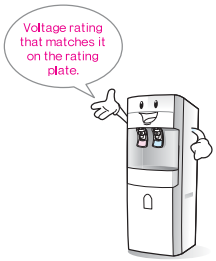
Read all the installation precautions and instructions carefully and completely prior to beginning use. Periodic maintenance is required in order for this product to perform as advertised. Read and save these instructions before using.

⚠ *WARNING*

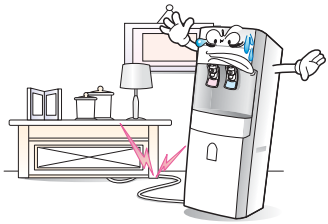
For your safety, the information in this manual must be followed to minimize the risk of property damage or personal injury.

Electricity Safety

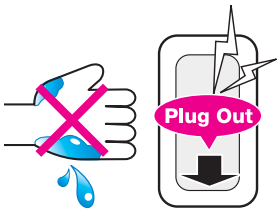
- Only connect the power cord to the voltage rating that matches it on the rating plate to avoid danger such as electric shock or fire. And be sure the electric outlet is in an inside location to protect from moisture.



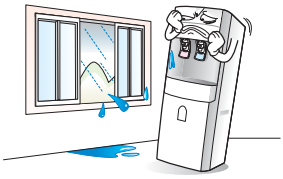
- Be sure the power cord does not to be bend by force and do not put a heavy object on it to avoid any electric leakage or damage.



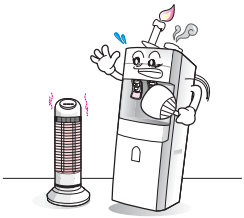
- Do not pull the power plug from the outlet with a wet hand or get the plug wet to avoid electric shock.



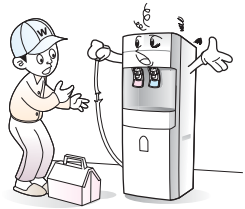
- Never splash the water filtration system with water to avoid the risk of electric shock.



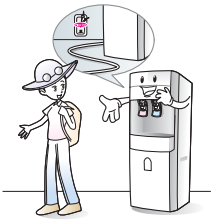
- Keep the cord out of heavy traffic areas. To avoid fire hazard, **NEVER** put the power cord under rugs, near heat resisters, radiator, stoves, or heaters.



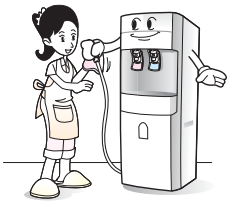
- Do not use a damaged power cord or plug , and loose consent where the plug cannot be inserted securely to avoid fire or shock hazard. If the power cord is damaged, it must be replaced by the manufacturer, its service agent or a similarly qualified person in order to avoid a hazard.



- Unplug the power cord when not using for an extended period of time. Insulation may deteriorate, causing short circuit, fire and/or electric shock as a result.



- Periodically remove dust from the power plug with a dry cloth. Dust built-up can cause bad insulation and a fire may occur as a result.

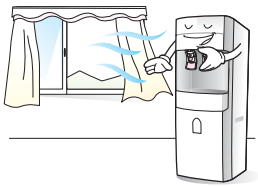


WARNING

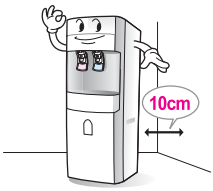
Do not use with water that is microbiologically unsafe or unknown quality without adequate disinfection before or after the system.
Do not connect any pressure-relief device to the vent pipe of this water heater.

Installation & Use Safety

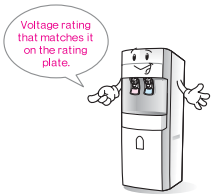
- Keep the water filtration system away from the place being humid and direct sunlight.



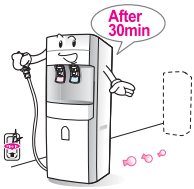
- Keep 10cm away from the wall and install firm and flat place.



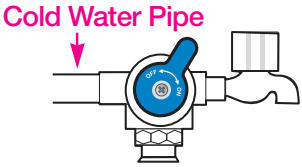
- Only connect the power cord to the voltage that matches it on the rating plate to avoid danger such as electric shock or fire.



- After installed, moved, and severely shaken, about 30minutes are needed for stabilization of the compressor before using the product.

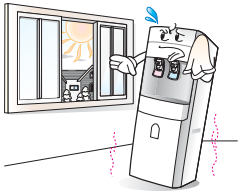


- Connect the water filtration system to cold water pipe only.



Note The feed water over 40℃ could cause damage of filters.

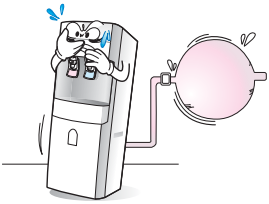
- Keep the water filtration system out of direct sunlight and humid place. And the sun's heat may distort non-metallic parts and may damage the electronics.



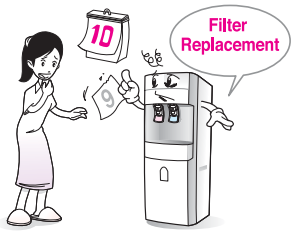
- Do not install the water filtration system where it could freeze. Freezing damage is not covered by the warranty.

- Keep the water filtration system away from the place being humid and dust rising place to avoid electric shock and fire.

- If the water pressure at house is over the maximum working pressure of the water filtration system (maximum working pressure:120psi), install a pressure reducing valve in the water line.



- Periodical filter replacement is prerequisite for getting clean water. In case filters are overused, the performance of filters is deteriorated. Therefore, do not miss the time of filter replacement.

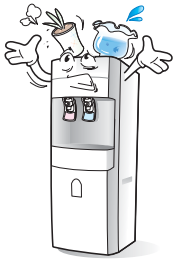


- When water is stored or the product is not in use for a long time, drain all the water in the storage tank before use.

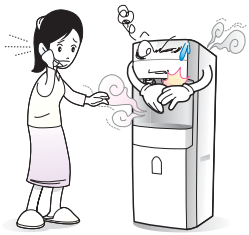
- Do not repair, disassemble, or modify. Fire and/or electric shock may occur as a result. For repair, contact your dealer of purchase or A/S center.

- Be careful not to get burned by the hot water while extracting or draining.

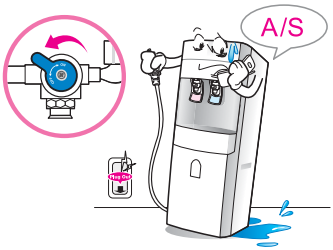
- Do not allow the foreign or unexpected material into the storage tank. The treated water in the storage tank may be deteriorate as a result.



- Immediately plug out in the case of a smoke or smell of fire, and call to A/S center. Electric shock or fire may occur as a result.



- Cut off the feed water valve and plug out, then call to A/S center in the case of any water leakage from the product.

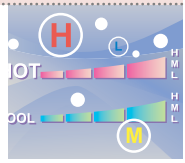


- The appliance is not intended for use by young children or infirm persons without supervision; Young children should be supervised to ensure that they do not play with the appliance.

FEATURES OF CHP-04AR/L/U

1. Cold & Hot Water Level Control

It is able to control on the level of High(H), Middle(M) and Low(L) according to the user's taste.

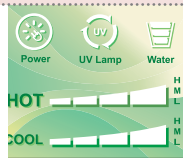


2. Micom Control System

Is easy to use as it is automatically controlled by Micom.

3. Convenient Display

Shows various signal such as water level, water temperature, UV cycle and so on.



4. UV Cycle System

Prevents microorganism caused by second contamination, by circulating the treated water inside the storage tank periodically.

5. Boost Pump for Pressurizing Feed Water (CHP-04AR)

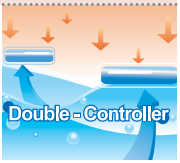
Increases capacity of treated water by pressuring feed water.

6. Hot Water Safety Faucet Device

Prevents a burn caused by hot water with equipped safety device.

7. Double Safety Water Level Controller

Prevents overflow by double-controlling water level of the storage tank.



8. Draining System in Front

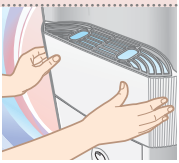
In case of draining, it adds convenience by opening the drain cover and then draining water through the hose on front without additional movement.

9. Prevention of Fine Dust

By using “Fine Post-Carbon filter”, it diminished the fine dust which can be flowed into the water tank.

10. Large Capacity of Gutter

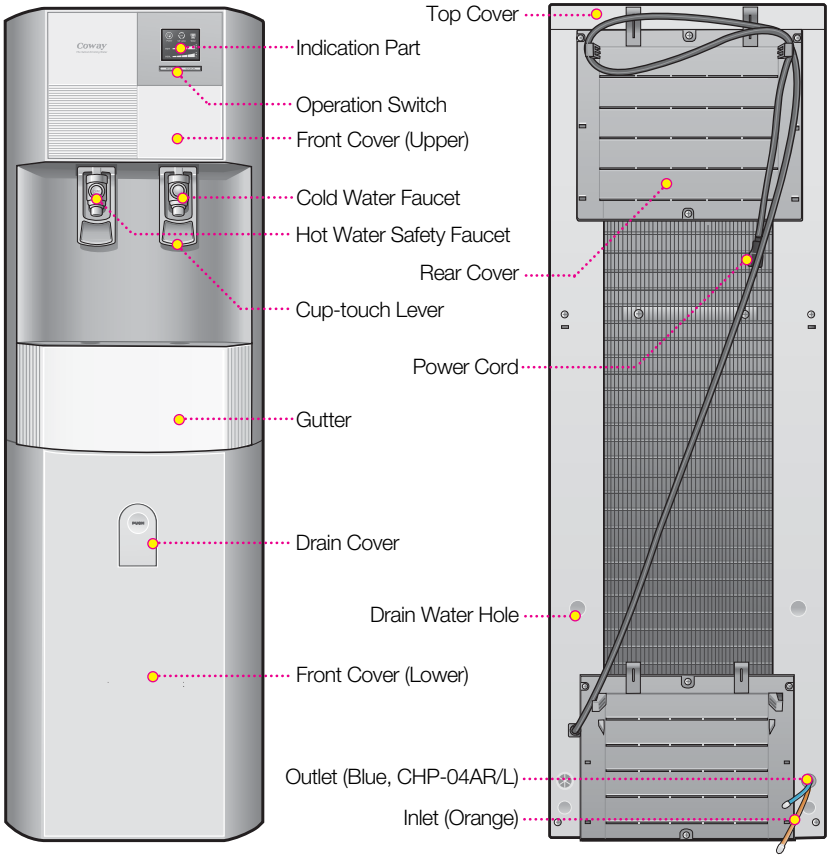
By applying for large capacity of gutter, user doesn’t need separate subsidiary draining tank.
And if user removes the gutter, it is enable to extract the filtered water directly with large vessel.



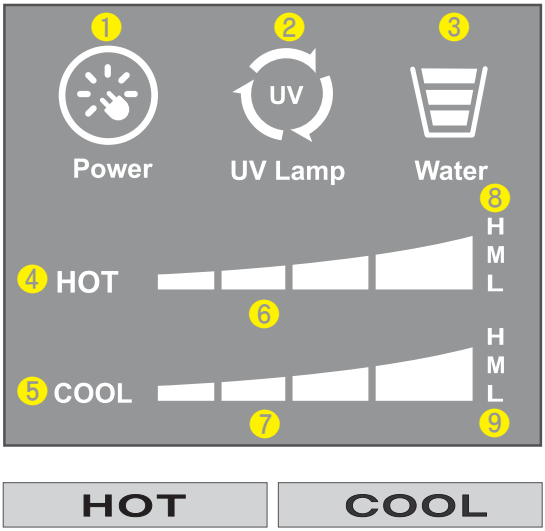
NAMES OF EACH PART

Front / Rear

Front **Rear**



Operation Parts / Indication Parts



Operating Parts

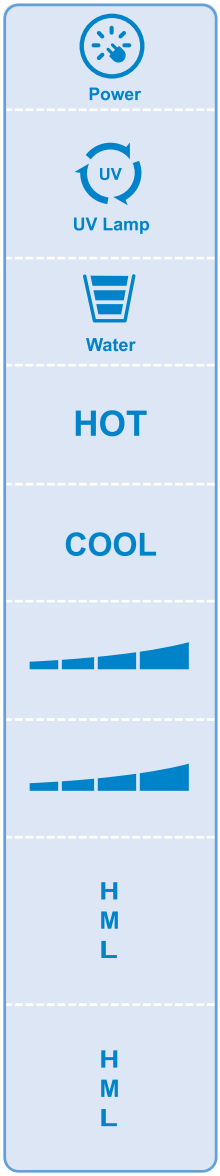
HOT ***Hot Water Selection Switch***

If you press the switch shortly for about 1 second, hot water is selected. And if you press for about more than 3 second, the selection of hot water is canceled. In statement of hot water selection, water level is changed in order of H→L→M→H whenever you press the button shortly.

COOL ***Cold Water Selection Switch***

If you press the switch shortly for about 1 second, cold water is selected. And if you press for about more than 3 second, the selection of cold water is canceled. In statement of cold water selection, water level is changed in order of H→L→M→H whenever you press the button shortly.

Indication Parts



1. Indication Lamp of On/Off

It indicates on/off state of power.

2. Indication Lamp of UV Cycle

In case that storage tank is full for a hour, “UV” lamp lights on and UV lamp lights off in serial. In case that “UV” lamp blinks, change the UV Lamp.

3. Indication Lamp of Water Level

It indicates the water level of storage tank by stages.

4. Indication Lamp of Hot Water

It indicates the state of hot water by turning on or off the “Hot Water Selection Switch”.

5. Indication Lamp of Cold Water

It indicates the statement of cold water by turning on or off the “Cold Water Selection Switch”.

6. Indication Lamp of Hot Water Temperature

It indicates the temperature of hot water according to the hot water selection or the degree.

7. Indication Lamp of Cold Water Temperature

It indicates the temperature of cold water according to the cold of water selection or the degree.

8. Indication Lamp of Hot Water Temperature Level

It is controlled by Hot Water Selection switch
H : High
M : Middle
L : Low

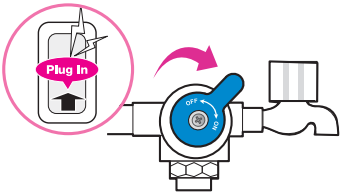
9. Indication Lamp of Cold Water Temperature Level

It is controlled by Water Selection switch
H : High
M : Middle
L : Low

HOW TO OPERATE

Preparation before Use

Step1 Connect it to voltage rating that matches it on the rating plate. Then, open main water feed valve to supply water to the filtration system.



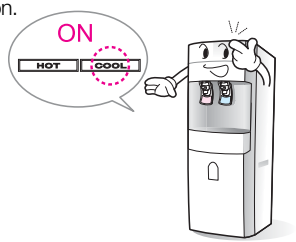
Step2 Turn on the cold and hot water switch after 30 minutes from initial installation.

How to Drink Cold Water

⚠ WARNING

Check out water comes out from the hot and cold faucet before turning on the hot and cold water switch to prevent malfunction of heater and compressor.

Step1 Turn on the cold water switch on the front and make sure that the indicator of cold water is turned on.



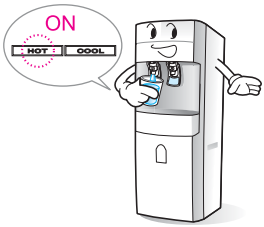
Step2 Push the cold water cup-touch lever to extract the cold water.

Note After installed, moved, and severely shaken, about 30minutes are needed for stabilization of cooling device and heating device before using the product.

How to Drink Hot Water

⚠ WARNING
Be careful not to get burned by the hot water.

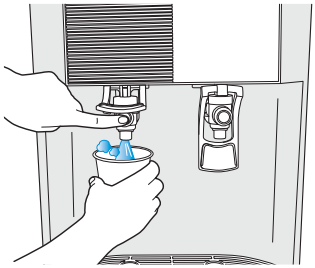
Step1 Double check out the water comes out from the hot water faucet and then turn on the hot water switch on the front. Make sure that the indicator of hot water is turned on.



Step2 Press 'PUSH' button of hot water faucet and lightly push the cup-touch lever at the same time to extract hot water.

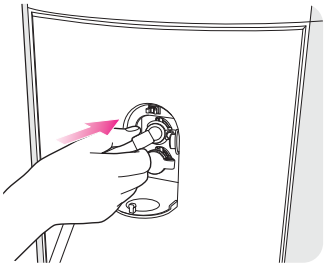
Continuous Extraction

Pull forward the cup-touch lever of hot or cold water faucet to extract continuously water.



Draining Water

Turn off the cold and hot water switch before unplugging power cord. And close the main water feed valve. Then, connect the hose to the drainage valve to drain water.

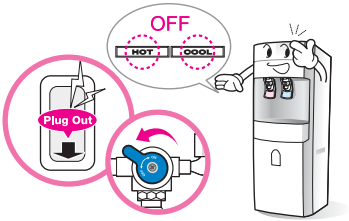


CLEANING METHOD

Note | Keep the surrounding environment clean all the time and clean the inside of the tank once a month to get clean water.

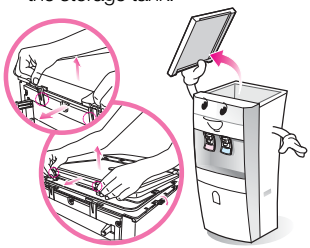
Cleaning of Storage Tank

Step1 Turn off the cold and hot water switch. And close the main water feed valve before unplugging power cord.



Step2 Drain all the water in the storage tank by using the drain hose. Then, keep it on a water reservoir.

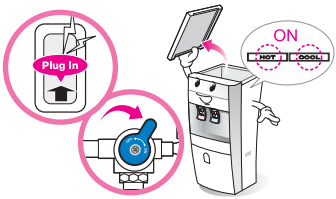
Step3 Open the top cover of the product and open the cap of the storage tank.



Step4 Wipe the inside of the storage tank with a soft cloth.

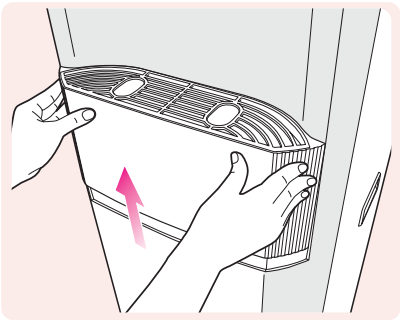
Step5 Wash out the storage tank with the reserved water and drain it through the drain hose.

Step6 Close the cap and the top cover. And plug the power cord and open the main water feed valve. Then, turn on the cold and hot water switch.

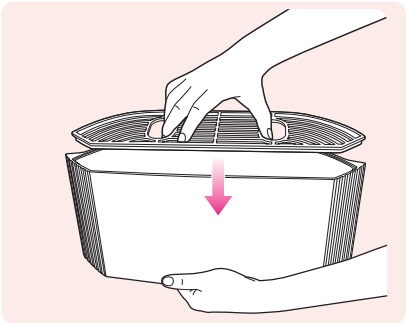


Cleaning of Gutter

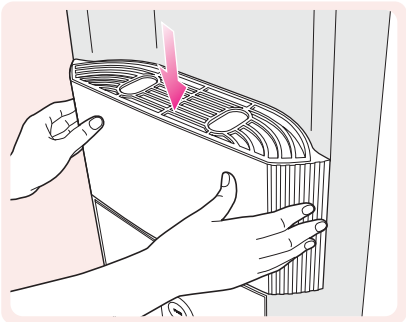
Step1 Slightly lift gutter and the cover upward, and separate them.



Step2 After cleaning gutter and the cover, combine them.



Step3 And then, slightly push and press the combined gutter and cover downward.



FILTRATION SYSTEM

How does Our Product Filter Out Wastes?

The reverse osmosis membrane system has been applied to our water filtration system, where a TFC membrane with pores of 0.0001㎛ (1/1,000,000 of hair) is used. The components of our water filtration system are as follows;

STEP1 *Plus-Sediment Filter*

Using a step-by-step filtration method per pore, this filter effectively reduces various foreign bodies that come from the supplying water pipe such as bits of rust and also protects the membrane. The Plus-Sediment filter vastly reduces dirt, sand, rust particles, and other sediments.

STEP2 *Pre-Carbon Filter*

The activated carbon filter reduces chlorine, odor, tri-halo methane, gas additive MTBE, and organic pollutants such as pesticides, EDB, benzene, and TCE.

STEP3 *RO Membrane Filter / Post-Carbon Filter*

The RO(Reverse Osmosis) Membrane filter reduces cryptosporidium, viruses, coliform, bacteria, radioactive radon, arsenic, copper, iron, lead, manganese, as well as dissolved chemical solids such as bicarbonate, cyanide, ferrocyanide, nitrates, and nitrites. (CHP-04AR/L)
The Post-Carbon filter reduces unpleasant smell from water and enhances water flavor. (CHP-04AU)

STEP4 *Fine Post-Carbon Filter / Neo Filter*

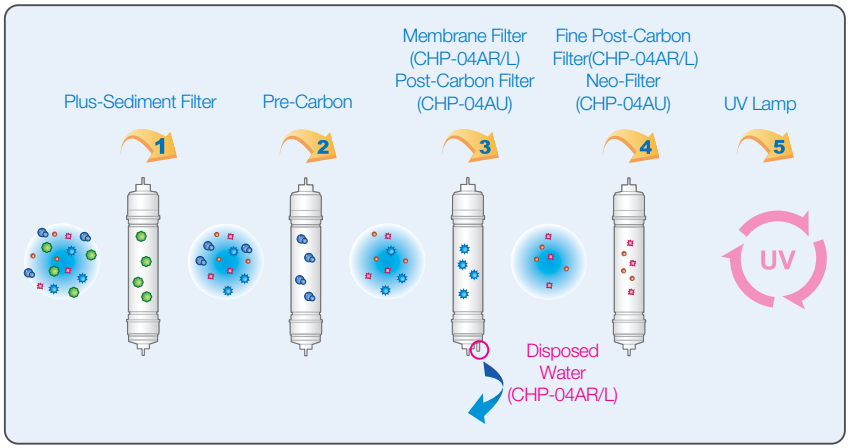
The Fine Post-Carbon filter reduces unpleasant smell from water and enhances water flavor, and prevents carbon particles to flow into storage. (CHP-04AR/L)
Neo filter reduces the foreign materials and waterborne microorganisms. (CHP-04AU)

STEP5 *UV Lamp*

UV lamp circulates the treated water inside the reservoir tank so that it prevents secondary contamination inside it.

Note This reverse osmosis system contains a replaceable treatment component, critical for the effective reduction of total dissolved solids and that product water shall be tested periodically to verify that they system is performing properly. Replacement of the reverse osmosis component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.

Water Filtration Process



WARNING

The disposed water shall be used for cleaning a toilet, a house, dishes, and as water for sundry uses. However, please do not use it for potable water or cooking water.

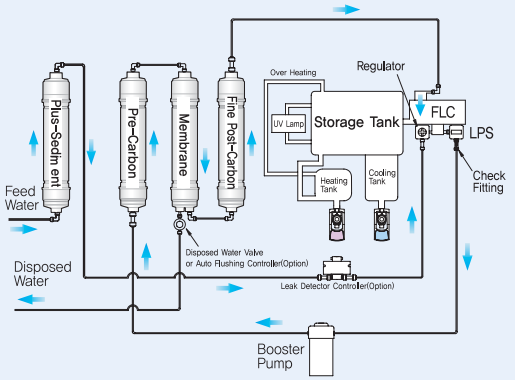
Estimated Time of Filter Replacement

The estimated replacement time of filter which is a consumable part is not an indication of quality guarantee period, but it means the ideal time of filter replacement. Accordingly, the estimated time of filter replacement may be shortened in case it is used in the area of poor water quality or a lot.

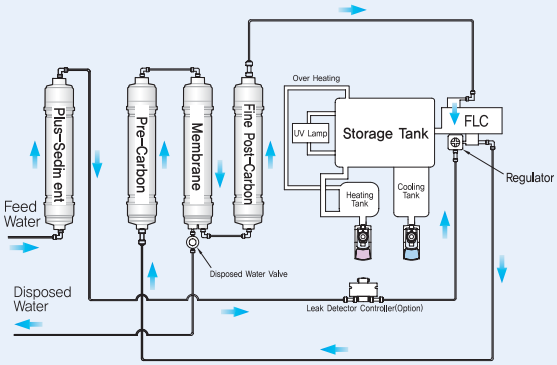
Names of Filter	Usable Period
Plus-Sediment Filter	4~6 months
Pre-Carbon Filter	8~12 months
Membrane Filter	12-24 months
Neo Filter	12 months
Fine Post-Carbon Filter / Post-Carbon Filter	12-18 months
UV Lamp	When the UV lamp blinks.

WATER FLOW DIAGRAM

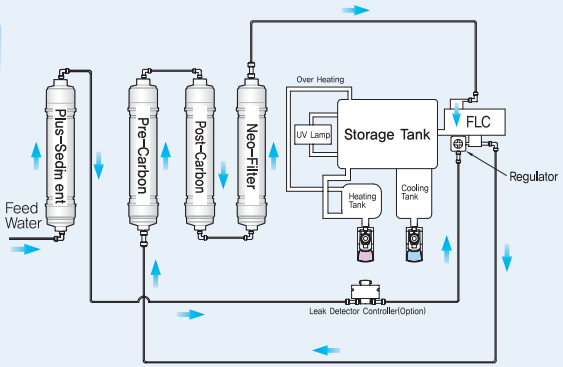
CHP-04AR



CHP-04AL



CHP-04AU



BEFORE ASKING A/S

Problem	Possible Causes	What To Do
No water comes out.	Is there the suspension of water supply or the supplying water valve closed?	Open the supplying valve.
	Is the flow rate of plus sediment filter normal?	Change the plus sediment filter.
	Is the main power normal?	Check the power.
	Is the supplying power to the boost pump normal?	Call to A/S to change the transformer.
	Does the boost pump normally operate?	Call to A/S to change the boost pump.
No cooling.	Does the main power connect to the voltage rating that matches it on the rating plate?	Connect the power to the voltage rating that matches it on the rating plate.
	Is the cooling switch turned on?	Turn the cooling switch on.
	Is the indicator of cooling mode turned on?	Call to A/S to change the connector or the display PCB.
	Does the compressor normally operate and is the input voltage normal?	Call to A/S to change the OLP or the thermistor for cooling.
No heating.	Does the main power connect to the voltage rating that matches it on the rating plate?	Connect the power to the voltage rating that matches it on the rating plate.
	Is the heating switch turned on?	Turn the heating switch on.
	Is the indicator of heating mode turned on?	Call to A/S.
	Does the heater normally operate and is the input voltage normal?	Call to A/S to change the heater.

WARRANTY INFORMATION

Coway

Product Guarantee

1. Parts and components shall be replaced free of charge within the guarantee period if the defects occur due to manufacturing defects in normal operation.
2. Contact us in case of breakdown.
3. In the following cases, repair work shall be charged even within the guarantee period.
   ▶ Breakdown caused by careless operation or unreasonable repair and renovation.
   ▶ Breakdown caused by nonperformance of the instructions specified in the manual.
4. Even after the expiration of guarantee period, it is possible to apply for charged repair.
5. Present this Letter of Guarantee whenever repair is needed.
6. This Letter of Guarantee is valid only in domestic where you buy this product.
7. Keep this Guarantee carefully as it is not re-issued.

Model	CHP-04AR/L/U	Guarantee Period
Serial No.		1 year
Date of Purchase		
Guarantee Period	From	To
Customer's Address		
Customer's Name	Tel.	

Please contact our customer's service center in case you are not satisfied with our A/S service.

- Nationwide A/S Call :
- Nationwide Periodical Inspection and Filter Replacement Call :
- Customer Counseling Center Call: Fax :

☞ In case any other filters or parts which are not genuine products of we are used, we is not responsible for any problems related to water quality.

Coway Co., Ltd
658 Yoogoo-Ri, Yoogoo-Eub, Gongju-Si, Choongnam, Korea
Tel : 82-41-850-7879 Fax : 82-41-841-7816
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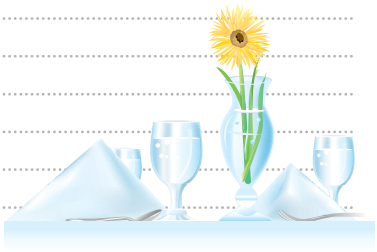
MEMO



Specification

Model		*CHP-04AR*	*CHP-04AL*	*CHP-04AU*
Power Supply		Voltage rating that matches it on the rating plate.		
Working Temperature		4℃~38℃		
FPM(Flow Per Min)		2~2.5L/min		
Filtration Method		R/O	Pump Free R/O	UF
Tank Capacity	**Room Water**	14ℓ		
	Cold Water	4.8ℓ		
	Hot Water	3.6ℓ		
Filtration Capacity		283ℓ/day(25℃, 60psi)	190ℓ/day(25℃, 20psi)	2160ℓ/day(25℃, 15psi)
Dimension		380(W)X437(D)X1257(H)mm <14.9(W)X17.2(D)X49.5(H)inch>		
Net Weight		38.6Kg<85.1lb>	36.5Kg<80.5lb>	

- Without any prior notice, all or parts of the product are subject to change for the purpose of improving the performance of the product.